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**Yamahira et al.**

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(54) **OVEN WALL SHAPE MEASURING APPARATUS, OVEN WALL SHAPE MEASURING SYSTEM, AND OVEN WALL SHAPE MEASURING METHOD**

(58) **Field of Classification Search**

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(57) **ABSTRACT**

An oven wall shape measuring apparatus includes: a slit laser light source that is arranged in a thermally-insulated protection box having a slit-like window and emits slit-like laser light; a laser light mirror that reflects the laser light and irradiates an oven wall surface with the laser light via the window; an imaging mirror that reflects reflected light due to irradiation of the laser light and self-emitting light emitted from the oven wall surface, the reflected light and the self-emitting light entering the thermally-insulated protection box via the window; and an imaging device that images, via an optical filter, the self-emitting light and the reflected light that are reflected from the imaging mirror.

**10 Claims, 5 Drawing Sheets**

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